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		<b>Test Report no.:</b> 5/2019
<b>PERSONAL PROTECTIVE EQUIPMENT EU-TYPE TEST REPORT</b>		
<p>The conformity assessment of the personal protective equipment was carried out under Regulation (EU) 2016/425 by Mádi és Társa Ltd. Testing Laboratory as an authorised body under number 4/2017 - based on standard MSZ EN ISO/IEC 17065:2013 – and notified to the European Commission and its member states and registered under number NB 1556</p>		

<b>1. Place of examination:</b> 1 Wysocki u., 1155 Budapest, Hungary	<b>2. Name of Applicant:</b> RHINO WORK SRL Str. Calea Moldovei, No.45 CP 600352 Bacau
<b>3. Date of receipt of product:</b> 01 July 2019	<b>4. Date of examination:</b> 01 July 2019
<b>5. Nature of examination:</b> EU-type examination	<b>6. Test equipment:</b> 10 kV AC power supply (103/A), manual multimeter (1/N), climate chamber (109/A)
<b>7. Description and type of tested product:</b> Occupational footwear against electrical hazards, with leather upper - product family <i>Article number:</i> GAUSS CK (I/A) TESLA CK (I/B) <i>Manufacturer:</i> RHINO WORK SRL <i>Manufacturer's address:</i> Str. Calea Moldovei, No.45 CP 600352 Bacau Romania	
<b>8. Applied standards, including approved test methodology:</b> EN ISO 20344:2011; EN ISO 20345:2011	<b>9. Testing instructions no. according to the Quality Management Manual:</b> VU-1-11
<b>10. Worksheet/T registration number:</b> 1801/2019	

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## 11. Description of the test:

### 1. Preparation.

Requirements: the footwear intended for examination shall be conditioned in a climate chamber at a temperature of  $(40 \pm 5)$  °C and  $(98 \pm 2)\%$  relative humidity for a period of a minimum of 4 hours in advance.

Conditioning was carried out.

### 2. Tests.

Tests were carried out at a temperature of 27,1°C and 43,6 % relative humidity.

The inside of the footwear shall be filled with corrosion resistant bearings with a diameter of  $(3,5 \pm 0,6)$  mm, where the thickness of the layer is  $(30 \pm 3)$  mm in the case of Class „00”, and  $(40 \pm 3)$  mm in the case of Class „0” – the clearance is measured from the smallest height of the upper – , and the testing (high-voltage) electrode shall be placed in it.

The outsole of the footwear with metallic insert shall be penetrated with a metallic pin in such a way that it could reach the penetration resistant insert. The metallic pin, which constitutes the counter electrode, shall be earthed, and an electricity metering instrument shall be connected.

### Description of the test procedure:

Visual inspection:

It shall be verified if the markings specific to electrical insulation have been applied to the footwear, namely:

- symbol
- electrical class
- serial or batch number
- month and year of manufacture
- „CE” mark and identification number of the notified body

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**Proof voltage test:**

The AC voltage shall be initially applied at a low value and will provide a constant rate of rise to the test voltage of approx. 1000 V/s until it reaches 5000 V or puncture occurs (Class „0”). The current that flows through (leakage current) shall be measured for minimum 3 minutes after reaching the specified test voltage.

The test is considered as passed if the specified test voltage is reached and maintained for the specified duration and the proof test current does not exceed 1mA during the test period.

In case the occupational footwear can only be used at a working voltage of max. 500 V (Class „00”), the proof voltage test value shall be 2500 V.

**Withstand voltage test:**

The AC voltage shall be applied gradually, until 10000 V, then immediately reduced to zero. The voltage shall provide a constant rate of rise and decrease to the test voltage of 1000V/s. (Class „0”).

The withstand test is considered as passed if the specified voltage is reached and no puncture occurs.

In case the footwear can only be used at working voltage of max. 500 V (Class „00”), the withstand voltage test value shall be 5000 V.

**2.1. Test arrangement**

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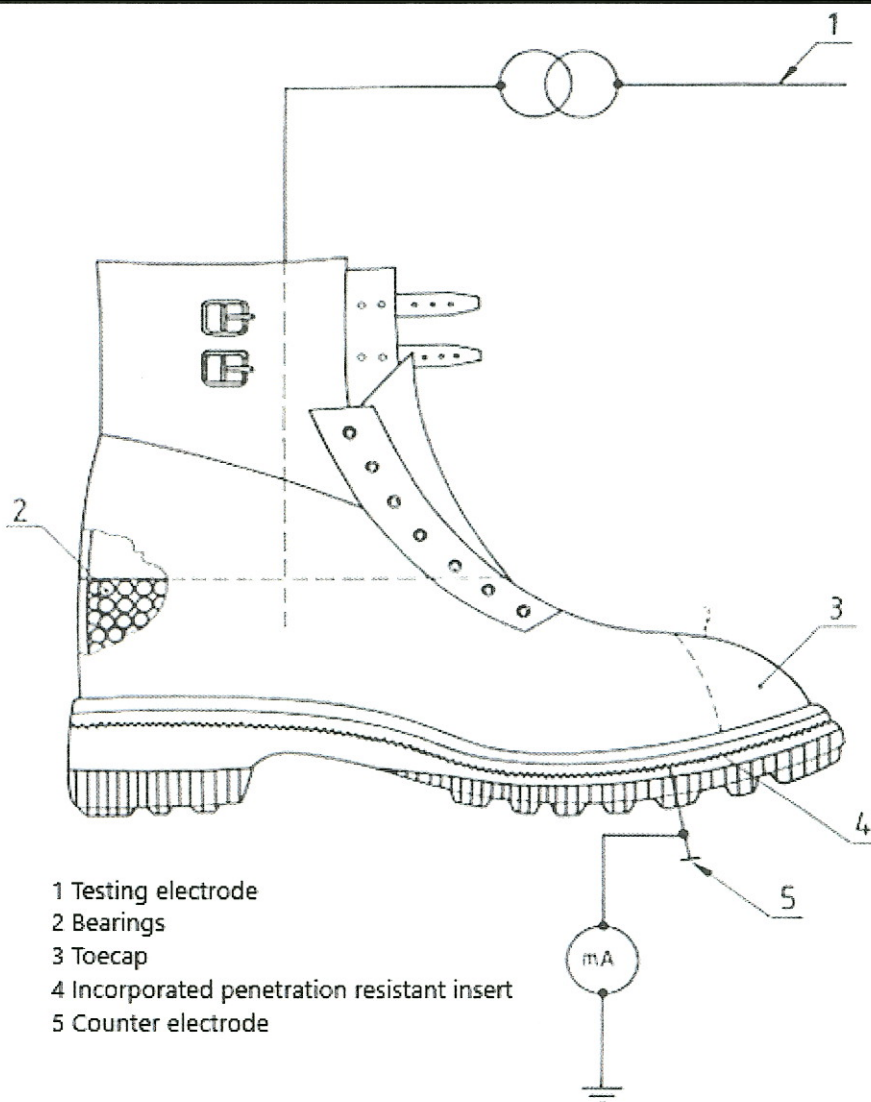
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## 12. Test results, evaluation (with units of measurement):

### GAUSS CK (I/A)

Identification number	Proof voltage test kV	Leakage current value mA	Withstand voltage test 10 kV	Test result
1	5	0,50	passed	passed
2	5	0,58	passed	passed
3	5	0,46	passed	passed
4	5	0,35	passed	passed

### TESLA CK (I/B)

Identification number	Proof voltage test kV	Leakage current value mA	Withstand voltage test 10 kV	Test result
5	5	0,54	passed	passed
6	5	0,63	passed	passed
7	5	0,44	passed	passed
8	5	0,36	passed	passed

Protection class: The footwear provides protection against electric shock during work on electrical network or installations of up to 1000 V AC in dry working conditions. The footwear is waterproof (WRU), with energy absorption in the heel area (E). In addition, it protects against perforation of the sole (P), impacts of falling objects of 200 J energy and against slips (SRC). The material of the sole is fuel and oil resistant (FO).

Electrical class: "0"

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#### 13. Information on the test:

The tested products satisfy the requirements of the Testing Instructions no. VU-1-11.



  
Head of Testing Laboratory

End

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